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## GOVERNMENT OF INDIA

Zoological Survey of India  
Kolkata-700053

### REQUEST FOR PROPOSAL

### UPGRADATION AND MAINTENANCE OF PORTAL 'BEETLES OF INDIA' TWO BID SYSTEM

**Date: 17.04.2025**

On behalf of the President of India, Director Zoological Survey of India, New Alipore, Kolkata 700053 invites sealed tenders / bids / from interested reputed and experienced OEM/ Firm/Vendor / Service Provider for upgradation and maintenance of a portal '**Beetles of India**' in Two Bid system. The bidder must submit their offer in two separate sealed envelopes. Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately and clearly marked as "**Envelope No.1 - Technical Bid**" and "**Envelope No.2 - Price Bid**" respectively. Both the sealed envelopes should be placed in a third larger envelope. All the three envelopes should be sealed properly.

Part-1 (A to E): "TERMS & CONDITIONS" "VENDOR EVALUATION FORM", "BACKGROUND, OBJECTIVES & SPECIFICATIONS", and "EVALUATION CRITERIA" of the tender.

Part-2 : "PRICE BID" of the tender.

The main details of Tenders are as follows:-

BID REFERENCE No.	: <b>ZSI/NIT/WEB PORTAL COLEOPTERA</b>
LAST DATE AND TIME FOR SUBMISSION OF BIDS	: <b>12.05.2025</b> UPTO 03:00 PM
DATE AND TIME OF OPENING OF BIDS	: <b>12.05.2025</b> UPTO 04:00 PM
PLACE OF OPENING OF BIDS	: Zoological Survey of India New Alipore, Kolkata – 700053
BID SECURITY (EMD)	: Rs. 20,000.00 (Twenty Thousand Only)

**EMD, the dates for submission and opening of the tender mentioned above are final. In case some other dates for these are mentioned elsewhere in the tender document, it shall prevail over them.**

**This Document Contains – 20 Pages**

Please superscribe the Title, Reference number and date of opening of the Bids on the sealed cover to avoid the Bid being declared invalid. **The Tender, complete in all respects should be submitted up to 03.00pm on 12.5.2025 which shall be opened on the same day at 1600HRS in presence of parties present at the time of opening of Tender.**

For any communication regarding this tender, kindly mention Bid Reference No i.e. ZSI/NIT/WEB PORTAL COLEOPTERA on the main envelop of the correspondence

The sealed envelope containing “Terms & Conditions”, “Vendor Evaluation Form”, “SOR”, “Technical bid”, “Evaluation Criteria” and “Price Bid” on prescribed tender document should reach the DIRECTOR, ZOOLOGICAL SURVEY OF INDIA, NEW ALIPORE, KOLKATA on or before **12.5.2025** up to **1500 HRS** otherwise the tender will not be accepted. One representative of each vendor may participate at the time of opening the bids. The bidders may depute their representative, duly authorized in writing, to attend the opening of bids on the due date and time. Name of bidders and important technical specification quoted by the all the Bidders will read out in the presence of the representatives of all the Bidders. This event will not be postponed due to non-presence of your representative.

Bidders are required to submit Earnest Money Deposit (EMD) for amount of Rs 20,000/- (Rupees Twenty Thousand only) respectively along with their bids. Tender EMD may be submitted in the form of Account payee Demand Draft should be in favour of “PAO (BSI/ ZSI), payable at Kolkata” in a **separate sealed envelope**. No exemption in earnest money shall be given. All tenders submitted without requisite amount of earnest money shall be rejected and their financial bids shall not be opened.

It will be the responsibility of the bidders to check website <http://www.zsi.gov.in> for any amendment through corrigendum in the tender document. In case of any amendment, bidders will have to incorporate the amendments in their bid accordingly.

Stores Officer, ZSI

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**PART - 1(A)**  
**TERMS & CONDITIONS**

**UPGRADATION AND MAINTENANCE OF PORTAL 'BEETLES OF INDIA'**

1. **Last date and time for depositing the Bids:** 12.5.2025 and 1500 HRS  
The sealed Bids should be deposited/reach by the due date and time. The responsibility to ensure this lies with the Bidder.
2. **Manner of depositing the Bids:-** Sealed Bids should be either dropped in the Tender Box marked as **DIRECTOR, ZOOLOGICAL SURVEY OF INDIA** or sent by registered post at the address given below so as to reach by the due date and time. Late / Delayed tenders will not be considered. Printed conditions of the vendor submitted with the tender will not be binding on Zoological Survey of India. No responsibility will be taken for postal delay or non-delivery / non-receipt of Bid documents. Bids sent by FAX or e-mail will not be considered. Please super-scribe the above mentioned Title, Request for Proposal No and date of opening of the Bids on the sealed cover to avoid the Bid being declared invalid.  
  
Address: Director, Zoological Survey of India  
Prani Vigyan Bhawan, M-Block, New Alipore  
Kolkata-700053
3. **Time and date for opening of Bids:** 1600HRS 12.5.2025  
(If due to any exigency, the due date for opening of the Bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by the Buyer).
4. **Location of the Tender Box:**  
**ZOOLOGICAL SURVEY OF INDIA, 1st Floor Room No-106, Prani Vigyan Bhawan, M Block, New Alipore, Kolkata-700053**  
Only those Bids that are found in the tender box will be opened. Bids dropped in the wrong Tender Box will be rendered invalid.
5. **Place of opening of the Bids:** Conference Hall or any other place of Zoological survey of India. The Bidders may depute their representatives, duly authorized in writing, to attend the opening of Bids on the due date and time. Rates and important commercial/technical clauses quoted by all Bidders will be read out in the presence of the representatives of all the Bidders. This event will not be postponed due to non-presence of your representative.
6. **Two Bid System:** Technical would be opened on **12.5.2025 at 1600HRS**. Date of opening of Commercial Bid will be intimated after acceptance of the Technical Bids. Commercial Bids of only those firms will be opened, whose Technical Bids are found compliance / suitable after Technical Evaluation is done at this department.
7. **Forwarding of Bids:** Bids should be forwarded by Bidders under their original memo / letter pad inter alia furnishing details like TIN number, Service Tax Registration No, GST, etc. and complete postal & e-mail address of their office. Bidders are requested to carefully read the request for proposal before forwarding the bids.

8. **Clarification regarding contents of the Tender:** A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the Buyer in writing about the clarifications sought not later than 14 (fourteen) days prior to the date of opening of the Bids.
9. **Modification and Withdrawal of Bids:** A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to deadline prescribed for submission of bids. A withdrawal notice may be sent by fax but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach the purchaser not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security.
10. **Clarification regarding contents of the Bids:** During evaluation and comparison of bids, the Buyer may, at its discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the initiative of the bidder will be entertained.
11. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection of bid. Conditional tenders will be rejected and will not be considered.
12. **Validity of Bids:** The Bids should remain valid till 90 days from the last date of submission of the Bids.
13. **Language of Bids:** All documents relating to the bid shall be in the English Language.
14. **Currency of the Bids and Payments:** The Unit Prices and amounts shall be quoted by the bidder entirely in Indian Rupees only.
15. **Examination of Bids and Determination of responsiveness:** Information relating to examination, clarification, evaluation and comparison of bids and recommendations for the award of contract shall not be disclosed to bidders or any other persons, not initially concerned with such process until the award of the successful bidder been announced. Any effort by the bidder to influence the official of ZSI processing of bids or award decision may result in the rejection of the bidder's bid.
16. **Earnest Money Deposit:** Bidders are required to submit Earnest Money Deposit (EMD) for amount of Rs 20,000/- (Rupees Twenty Thousand) along with their bids. The EMD may be submitted in the form of Account payee Demand Draft / Pay Order / in favour of PAO, (BSI/ZSI), payable at Kolkata in a separate sealed envelope. No exemption in earnest money shall be given. All tenders submitted without requisite amount of earnest money shall be rejected and their financial bids shall not be opened. EMD is to remain valid for a period of forty-five days beyond the final bid validity period. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. The EMD will be forfeited if the bidder withdraws or amends, impairs or derogates from the tender in any respect within the validity period of their tender.

17. Interested parties who fulfill following criteria are only eligible for development of web portal:-

(a) Registered with GST.

(b) Experience of designing, development, upgradation and maintenance of web portals (please attach requisite documents).

(c) The firms/bidders should not have been blacklisted by any Department of Govt of India. The tendering firms/ bidders shall have to give a notarized affidavit on a stamp paper of appropriate value to the effect that they have not been blacklisted or their business dealings with Department of Govt of India have not been banned.

18. For further information/clarification in this respect, please contact Head of Office, ZSI during working hours.

19. No increase in rates will be allowed during the Contract Period due to any reason, after opening the bids.

20. In case, GST is reduced or increased subsequently by the Government at the time of placement of the Purchase Order, then the same will be adjusted by either party on production of requisite proof.

21. The prices quoted should be inclusive of all taxes etc and no hidden cost may be given.

22. **Arbitration:** All disputes or differences arising out of or in connection with the Contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to construction or performance, which cannot be settled amicably, may be resolved through arbitration. The standard clause of arbitration is as per Zoological Survey of India regulations.

23. **Performance Guarantee:** EMD of successful bidder will be converted in to performance guarantee. Performance guarantee should be valid up to successful complaisance of services. No exemption with regard to Performance guarantee will be given to any firm.

24. **Penalty for use of Undue influence:** The Seller undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favour or disfavour to any person in relation to the present Contract or any other Contract with the Government of India. Any breach of the aforesaid undertaking by the Service Provider / Seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the Seller) or the commission of any offers by the Seller or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the Seller and recover from the Seller the amount of any loss arising from such cancellation. A decision of the ZSI/ Buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller. Giving or offering of any gift, bribe or inducement or any attempt at any such act on

behalf of the Seller towards any officer/employee of the Buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favour in relation to this or any other contract, shall render the Seller to such liability/ penalty as the Buyer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Buyer.

25. This Request for Proposal will be binding to the successful vendor as contract documents. Purchase Order will be issued to successful firm with applicability of all terms & conditions of this Request for Proposal.

26. **Liquidated Damages** In the event of the seller's failure to supply the stores/goods as mentioned in the purchase order the Buyer may, at this discretion, withhold any payment until the completion of the contract. The **Buyer** may also deduct from the **seller** as agreed, liquidated damages to the sum of 5% of the purchase order price of the delayed/undelivered stores for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 5% of the value of delayed stores. Supply means Developing Android Mobile Application for Faunal Species information of protected areas in India.

27. Payment for the items to be supplied by the firm / vendor against the Purchase Order shall be made by ZSI as follows:-

- (a) Payment will be made for each line/ item as per the purchase order/ work order/ convey order
- (b) Bills will be passed quarterly (based on the work done in each quarter)

28. The Lowest Bid will be decided upon the lowest price quoted by responsive suitable technically qualified Bidder. Lowest cost will be decided upon lowest prices quoted in total for the entire tender. Work order/ Purchase Order would be placed to L1 firm who meets all criteria mentioned in the tender as and when requirement arises.

29. The Director Zoological Survey of India reserves the right to reject any or all quotations without assigning any reason therefore.

30. Decision of the Director Zoological Survey of India will be final and binding for all concerned.

31. All disputes subject to Kolkata jurisdiction only.

Stores Officer, ZSI

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**DECLARATION BY THE FIRM / VENDOR**

It is hereby declared that I/We the undersigned, have read and examined all the terms and conditions etc. of the Request for Proposal for which I/We have signed and submitted the bid under proper lawful Power of Attorney. It is also certified that all the terms and conditions of the tender document are fully acceptable to me/us and I/We will abide by the conditions from serial No 1 to 31. This is also certified that I/We/our OEM / Service Provider / Firm have no objection in signing the contract if the opportunity for the services against this tender is given to me/us.

Date:

Signature:

Address:

Name:

Designation:  
On behalf of:  
(Company Seal)



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**PART - 1(B)**  
**VENDOR EVALUATION FORM**  
**ZOOLOGICAL SURVEY OF INDIA, NEW ALIPORE, KOLKATA**

Sl No	Particulars	To be filled in by the Tenderer
1	Name of the Firm/ Service Provider	
2	Full address of Firm along with Telephone no. Fax no. E-mail address :	
3	Are you a OEM or dealer / Firm ( please attach relevant document)	
4	Are you a Registered under Indian Companies Act (Please attach document).	
5	Annual turnover in last 3 financial years in Lacs. (Please attach documentary proofs)  (i) Year 2022-23 (ii) Year 2023-24 (iii) Year 2024-25 (Please attach documentary proofs)	
6	GST Registration No (please attach requisite documents)	
7	Notarized Affidavit of undertaking that the firm has not been blacklisted / debarred by any Department of Govt. of India (please attach requisite documents)	
8	Whether the firm accepts the terms and conditions of Request for Proposal	

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**Signature and seal of the bidder:**





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## **PART - 1(C)**

### **BACKGROUND, OBJECTIVES & SPECIFICATION**

India is bestowed with enormous climatic and topographic heterogeneity and is a home to exceptionally rich faunal resources making it one of the seventeen Megadiverse Countries in the world. In the recent times, biodiversity research, particularly faunal inventorying, including documentation of rare taxa, description of new taxa and taxonomic revisionary studies on Indian fauna has increased significantly. Thus, the scientific information on the diversity and distribution of faunal species is enriching day by day and equally, the taxonomic status of various faunal groups/ taxa is changing too.

In this dynamic scenario, Zoological Survey of India, one of the premier scientific organizations with more than 109 year's history of documenting and disseminating knowledge on the faunal richness of India has an indispensable role to play in enlightening the scientific fraternity/academicians and the general public with updated information on the faunal diversity of India. The best and most promising way of disseminating such information is the easily accessible, user friendly and updatable digital platforms enriched with information on diversity and distribution of faunal taxa of India along with their detailed illustrations and taxonomy through World Wide Websites.

Indian Coleoptera diversity is extremely rich and fascinating with over 20000 species reported. Based on these rationales, preparation of a website exclusively dedicated to the 'Catalogue of Indian Coleoptera' is the actual need of the hour with the following below-mentioned objectives:

- To disseminate the updated and consolidated information on the diversity of Indian Coleoptera to the scientific fraternity of India as well as to the world, Graduate and Post Graduate Students, Ph.D. Scholars, Environmentalists, Agriculturists, Taxonomists, Biologists, Forest forces, Academicians, Amateur Naturalists, and many more.
- To generate a common platform among academicians throughout the world for sharing scientific knowledge regarding updated information on the diversity of Indian Coleoptera.
- To make taxonomic identification and validation of Coleoptera specimens easy and accurate.
- To create a user friendly interface for gathering any information on Indian Coleoptera chiefly for research purpose.

## **Development of Informational Website with Dynamic Dashboard – Beetles of India Portal**

### **Overall requirement**

To convert all the published checklist of Indian Beetles into easily accessible, user friendly and updatable digital platform in form of a website enriched with information on diversity and distribution of Coleoptera of India along with their detailed illustrations and taxonomy through World Wide Websites.

### **Upgradation required**

- An image gallery by including all the possible illustrations related to Coleoptera of India (approximately 5,000 species in long term).
- Additional information on the distribution of species in various protected areas (Wildlife Sanctuaries, Tiger Reserves and National Parks)
- Maintenance of the website for five years.

### **Specifications**

**Information on the website will mainly comprise of online catalogue covering all the species Indian Coleoptera along with images. Details are as follows:**

- For all the genera: type species, synonyms
- For all the subgenera: type species, synonyms
- For all the species and subspecies: original genus, first references, type locality, synonymy, and detailed distribution in India (including in states, biogeographic zones, protected areas and specific records) with distributional maps.
- As remarks: taxonomic notes, ecology, habitat preference, host information,
- Published literature in the literature section.
- Higher categories for each of the included genera and species will be part of the information.
- An image gallery illustrating adults, morpho-variations, external male & female genitalia, of various species of Indian Coleoptera.
- A dynamic dashboard exhibiting various parameters of related information like, but not limited to, taxonomic progress of Indian Coleoptera since Linnaeus, diversity in various ecosystems, authors contribution etc.

## **Roles and responsibilities:**

### *Zoological Survey of India (ZSI)*

- To provide data (Catalogue of species) in form of appropriate Excel format for the website as per the required specifications, including taxonomic hierarchy, locations (Long/lat in decimal degree format), distribution details (States, Blocks, Villages, or specific locations) per species per row (template to be provided by the service provider).
- To provide taxonomic updates (which will be published during the period of maintenance) related to the uploaded taxa (in the same format as above).
- To provide images in JPEG format in specific folders in appropriate taxonomic hierarchy with their relevant hierarchical names.

### *Service provider*

- To utilize the provided Excel by ZSI and integrate with the proposed portal as per the required specifications.
- During the maintenance period, in addition to the routine technical works, any taxonomic changes in the uploaded taxa (new species discoveries, new combinations, synonymies etc.) will required to be updated as provided by ZSI (Coleoptera section). Presumably, 50 new data entries/ updates per year (in the same format as mentioned above).
- Images of adults and genitalia are required to be updated as and when provided.

## **Timelines and way forward**

- The task of uploading information on all the species of Indian Coleoptera required to be completed within 12 months of issuing the work order (Considering the data has been handed over to the service provider at least 1 months before hand).
- For completing the task in time bound manner, dedicated manpower with knowledge of Coleoptera taxonomy and well versed with computer/ website applications/ formats is expected by the Zoological Survey of India, Kolkata.
- The service provider shall be responsible for maintaining the website for a period of five years (from the date of Purchase Order issued).
- This maintenance period will begin from the date of the Purchase Order has been issued to the service provider. The duration includes renewal and upkeep of hosting, domain registration, server management, and associated security services throughout the period.

## **Additional Features**

- **Artificial Intelligence (AI) based search system:** Enhance user experience with an intelligent search feature powered by AI. This system will analyse user queries to deliver more accurate and relevant results, making it easier for visitors to find specific Zoological species and related information quickly.
- **Species Comparison:** Offer a tool that allows users to compare different Coleoptera species side-by-side. This feature will provide detailed comparisons of various characteristics, such as habitat, behaviour, and physical traits, helping users understand similarities and differences between species more effectively.
- **Recommendation System:** Implement a recommendation engine that suggests related species or additional content based on user interests and browsing history. This system will improve user engagement by presenting tailored content and encouraging exploration of related topics within the website.
- **Micro-service-Based Architecture:** Adopt a micro-service-based architecture to enhance scalability, maintainability, and deployment flexibility. By breaking down the Web Portal system into smaller, independent services (such as search, Comparison, and recommendation engines), you can ensure each component can be developed, deployed, and scaled independently. This approach will also allow for easier updates and integrations with other services.
- **Testing:** Implement comprehensive testing strategies including unit tests, integration tests, and end-to-end tests to ensure the functionality and reliability of each feature. Regular automated testing will help identify issues early and maintain high-quality standards across the application.

## **Documentation:**

- **API Documentation:** Provide detailed API documentation for each microservice, including endpoints, request/response formats, and authentication methods. This will facilitate smooth integration and enable developers to understand and utilize the APIs effectively.
- **User Guides:** Create user guides and tutorials to help visitors navigate and use the new features, such as the AI-based search, species comparison tool, and recommendation system.
- **Technical Documentation:** Maintain thorough technical documentation covering the system architecture, data models, and development processes to support ongoing maintenance and future enhancements.

PROVISIONAL CONTENT (BASIC) OF THE WEBSITE					
Home	Beetles of India	Systematic Overview	Habitat and Biology	Bibliography	About us

## 1. HOME PAGE

Drop down of Home Page will have following information:-

Welcome to the Beetles of India

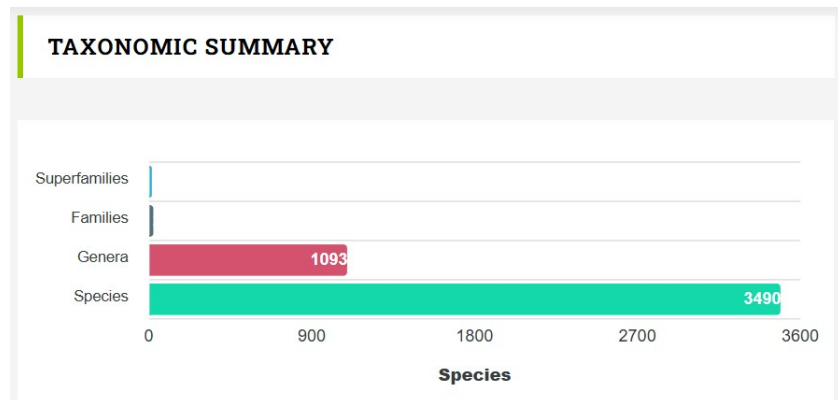
Statistics (in real time)

- Taxonomic Summary
- Diversity in States (in Bar Chart)
- Diversity in Biogeographic Zones (in Bar Chart)
- Number of Images
- Number of Website Visits

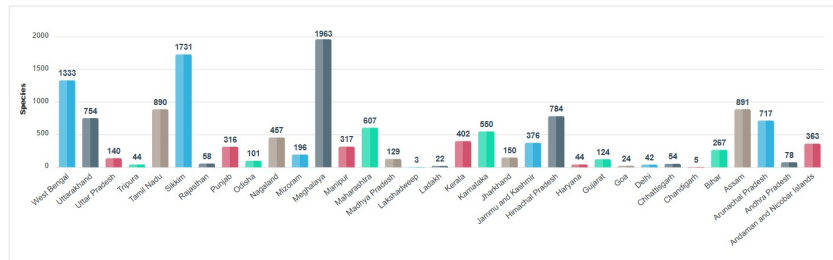
New Species

Latest Publications and News

Some examples



DIVERSITY IN STATES



Beetle Families

Host Plants of Indian Beetles

Predatory Beetles

Water Beetles

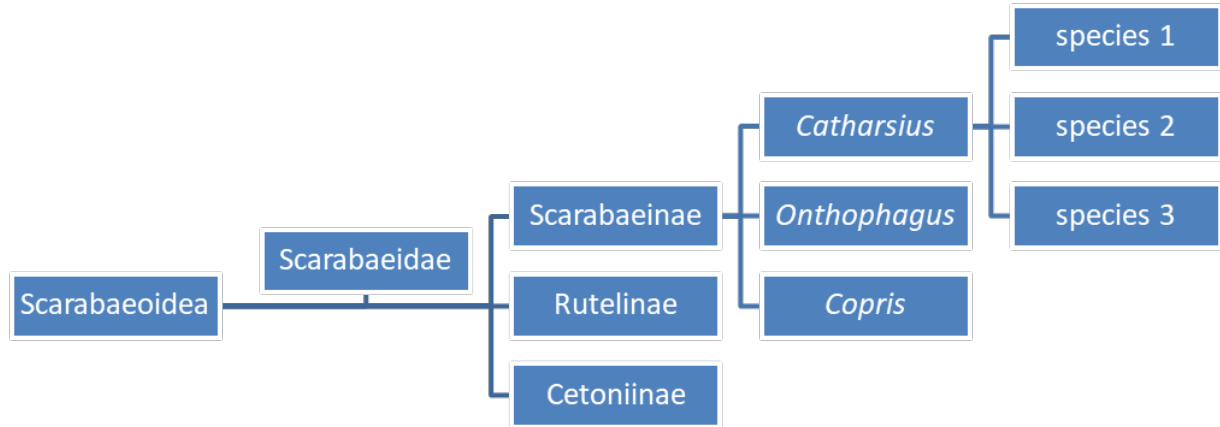
Beetles of Forensic Importance

Agricultural Beetles (Pests)

Video (if any)

List of Contributors

## 2. Beetles of India



The species tree will be vertical not horizontal as depicted above.  
Species will open on a separate page and have following information:-  
Name of the species (this will be in one page not in tabs)

Synonyms

Photos

Identification

Distribution

- India (to be shown on map too)
  - States/Union Territory
  - Biogeographic Zones
- Global

Habitat, Ecology and Conservation Status

References

Following Searches are to be applied

- Search scientific names
  - Search genus / subgenus:
  - Search species / subspecies:
  - Search author:
- Search distribution data
  - Search State / Union Territory
  - Search Biogeographic Zones

### 3. SYSTEMATIC OVERVIEW

### 4. IDENTIFICATION

- Beetle Families
- Identification keys
- Field/Pictorial Guides

## 5. HABITAT AND BIOLOGY

- Host Plants of Indian Beetles
- Predatory Beetles
- Water Beetles
- Beetles of Forensic Importance
- Agricultural Beetles (Pests)
- Beetles of Forestry Significance
- Conservation and Outreach

## 6. ABOUT US

- Website Team
- Publications of ZSI
- Resources for Press

### EXTENDED MENU

- HOME

### BEETLES OF INDIA

- Beetle Classification
- Beetle Species List
- Beetle Taxon Tree

### SPECIES IDENTIFICATIONS AND FIELD GUIDES

- Identification keys

### BEETLE BIOLOGY

- Host Plants of Indian Beetles
- Predatory Beetles
- Water Beetles
- Beetles of Forensic Importance
- Agricultural Beetles (Pests)
- Beetles of Forestry Significance

### CONSERVATION AND OUTREACH

#### USER RESOURCES

- ZSI Projects
- Bibliography of Indian Beetles
- Web Resources on Beetles

### ABOUT US

- Website Team
- Publications of ZSI
- Resources for Press

### COLLABORATE WITH US!

- Identification Services
- Study specimens at Coleoptera Section, ZSI, Kolkata
- Contribute Observations/Specimens

## Features and Modules

Component	Technical Description
Landing Page	HTML5, CSS3, Bootstrap/Tailwind for responsive design. Static sections on taxonomy, scope, institutional linkages, gallery, contact form.
Dashboard	JavaScript-based interactive dashboard using Chart.js / D3.js, built within a ReactJS or VueJS frontend framework.
Data Source	Dashboard to read structured .csv files (ZSI-provided). Real-time or updated datasets supported via backend endpoints.
Charts Required	- Line Chart (e.g., discovery timeline) - Bar Chart (e.g., Family vs. Species count) - Pie Chart (e.g., Geo-region vs. species richness) Charts are responsive and filterable
Filters	Dashboard filters (e.g., by biogeographic zone, family, year) via dropdown menus or checkboxes using reactive UI (e.g., React/Vue state management)
Content Management	Basic CMS interface (optional) or markdown-supported static content for easy updates.
Hosting	Deployed on Azure App Service, as per client request, with proper domain routing.
Performance	Optimized for load under 2 seconds; responsive on desktop, tablet, and mobile
Accessibility	Designed with WCAG 2.1 guidelines for accessibility compliance.

### Tech Stack:

- Frontend: ReactJS / VueJS / HTML5-CSS3
- Backend (if needed): Node.js / Flask
- Dashboard: Chart.js, D3.js, Leaflet.js for spatial visualizations (optional)
- Database: NoSQL (MongoDB) or Flat File CSV-based backend as per requirement
- Hosting: Azure App Services + DNS configuration
- Version Control: GitHub/Bitbucket

### Technical Terms, Condition and Specification

#### Eligibility Criteria:

**a, the service provider/firm/ Company should have minimum of 5 years of experience of web site development. (1 year in case of a Startup India and MSME registered companies).**

b. The service provider/firm should have experience of working on cross platforms and must have experience of developing and designing web portal for at least 3 government/ PSUs/ autonomous clients having turnover more than 50 lacs during last 3 years. Completion certificate/purchasers contact details to be submitted as proof. c. Copies of Company/firm/ agency balance sheet should submit, certified by the Chartered Accountant. (Not applicable in case of a Startup India and MSME registered companies).

c. The service provider must ensure that key personnel involved in the project, particularly those responsible for data handling, structuring, and content integration, possess higher educational qualifications in Zoology or Wildlife Science (PhD in Zoology). Furthermore, the personnel involved must demonstrate prior experience in working with Central Government bodies on biodiversity conservation-related projects.



- d. The bidder must have a team comprising both technical experts (web developers, UI/UX designers) and domain experts (zoologists, ecologists, or biodiversity scientists), to ensure scientifically accurate and user-friendly content delivery.
- e. The key personnel involved from the bidder must have documented experience working with reputed government agencies (e.g., ZSI, WII, WWF-India) or scientific institutions in the fields of wildlife, conservation, or environmental monitoring.
- f. The team must have demonstrable knowledge of taxonomic hierarchies, species distribution logic, and biogeographic zones of India to ensure proper structuring of dashboard filters and visualizations.

**Competencies:**

- a. The bidder should demonstrate relevant experience in developing content-rich and scientifically oriented websites or portals, preferably for academic or government institutions.
- b. The bidder must possess or engage technical professionals with sound knowledge in web technologies and basic project management practices to ensure timely delivery.
- c. The bidder should have a multidisciplinary team capable of producing scientifically accurate content with strong communication skills, including the ability to write clearly and effectively in English.
- d. The bidder must be capable of managing deadlines efficiently, prioritizing tasks, and adapting to project requirements under time constraints.
- e. The bidder must have provisions for prompt technical support and maintenance response following the commissioning of the website.
- f. Familiarity with and use of the latest web development technologies, frameworks, and data visualization tools is essential.
- g. The bidder must demonstrate the ability to regularly update and maintain the developed website or portal throughout the designated maintenance period.

**Essential knowledge and experience:**

- a. The bidder is expected to have strong analytical and research skills, with the ability to understand user profiles, scientific audiences, and content structures—ensuring the design and implementation of functional and intuitive portals.
- b. Familiarity with the mandate, structure, and public communication strategies of government departments or affiliated scientific bodies is desirable.

**Final Deliverables:**

- a. A searchable (with advance searches), and updatable online taxonomic information on the diversity and distribution of Indian Coleoptera, which should be easily accessible by browsing with relevant any of the keywords. Also, it should be user friendly and capable of continuous uploading of new material information.

- b. Web Portal aims to include updated information on all the species (around 5000 Indian Coleoptera, including, but not limited to, their first references, synonymy detailed distribution in India with distributional maps.
- c. Web Portal should be capable of providing information about the Coleoptera in general and in particular of different states, all the 10 biogeographic zones, all protected areas of India (as per the data available/provided on real time basis by the ZSI).
- d. Further updating will be done by including all the possible illustrations (adult Image morpho- variations, external male & female genitalia, etc.), diagnoses, taxonomic notes, ecology, habitat preference, host information, and published literature, etc.
- e. Higher categories of each species will be part of the information.

**Technical requirements:**

- New Web Portal hosted and maintained on the new server and space will be provided by service provider/firm.
- Data will be provided by ZSI as per the template shared by the service provider
- The web portal should be compatible for various gadgets/devices, Desktops, Laptops, Mobiles etc.
- Service provider/firm will provide maintenance services including spares/software etc. Warranty will be done on the basis of cost provided by the service provider/firm in the initial price bid format.
- Basic design of web portal should be customizable for any change in future.

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**PART - 1(E)**

**EVALUATION CRITERIA & PRICE BID ISSUE**

The broad guidelines for evaluation of Bids will be as follows:

- (a) Only those Bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the Request for Proposal, both technically and commercially.
- (b) Bids forwarded by the Bidders will be evaluated by the Buyer with reference to the technical specification of the items as mentioned in the Request for Proposal. The Price Bids of only those Bidders will be considered whose Bids would meet the technical parameters.
- (c) The Lowest Bid will be decided upon the lowest price quoted by the particular Bidder as per the Price Format. The Lowest Bid will be decided upon the lowest price quoted by responsive suitable technically qualified Bidder. Lowest cost will be decided upon lowest process quoted for entire tender. Purchase Order would be placed to L1 firm who meets all criteria mentioned in the tender as and when requirement arises.
- (d) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected. If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.
- (e) The Lowest Acceptable Bid will be considered further for placement of contract / Supply/ Work Order after complete clarification and price negotiations as decided by the Buyer. The Buyer will have the right to award contracts to different Bidders for being lowest in particular items. The Buyer also reserves the right to do Apportionment of Quantity, if it is convinced that Lowest Bidder is not in a position to supply full quantity in stipulated time.

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**Signature and seal of the bidder:**



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**PART - 2**

**ZOOLOGICAL SURVEY OF INDIA, NEW ALIPORE, KOLKATA**

**PRICE BID FORMAT**

(Bidders are requested to offer their price bid in the following format only)

Sl No	Description	Qty	Unit Price (in Rs)	Total Cost (in Rs)
1	Developing Designing, Development And Maintenance Of New Portal as per specification (Including One Year Warranty)	01		
2	Data entry (uploading of one species or subspecies to consider one entry)	5,000		
3	Maintenance (per year as unit price)	05		
	Net Bid Price in Rs			

	Percentage (%)	Included	Excluded	Not applicable
GST				
Any other cost if applicable				

**Bidders are requested to quote the price as per price bid format only. Lowest cost will be decided upon lowest prices quoted by the bidder for the entire tender. However, order will be placed as per the requirement for each line/ item and accordingly payment will be released.**

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Signature and seal of the bidder: